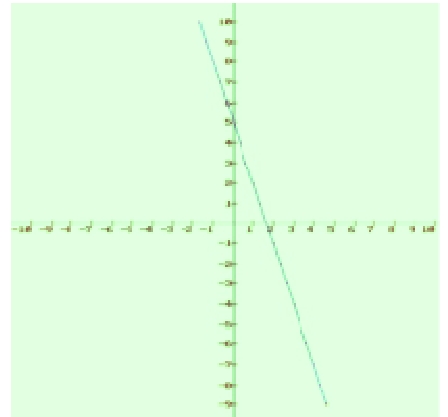Name _____   Date _____

Dilations and Parallel Lines - Guided Lesson

Complete the following problems:
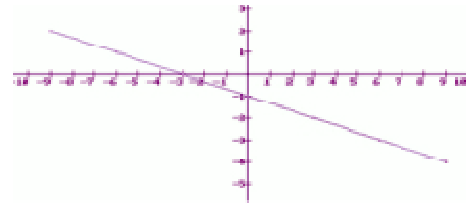
1) Line ℓ has the equation y= -3x + 5. Write the equation of the image of ℓ after dilation with a scale factor of 1/5, centered at the origin.

Write your answer in slope-intercept form.

2) Line ℓ has the equation $y = \frac{1}{3}x - 1$. Write the equation of the image of ℓ after dilation with a scale factor of 4, centered at the origin.

Write your answer in slope-intercept form.

3) Line ℓ has the equation $y = \frac{1}{3}x + 2$. Write the equation of the image of ℓ after dilation with a scale factor of 2, centered at the origin.

Write your answer in slope-intercept form.